

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Amendments to the Claims:**

1. (currently amended) A method for determining, in a timeslot, the initial setting of a gain control loop; the gain control loop being included in a receiver of a communication system which utilizes repeating frames, each frame having a plurality of timeslots; the method comprising:

- storing the setting of the gain control loop for a particular timeslot;
- retrieving said stored setting in the corresponding timeslot of a subsequent frame;
- providing a correction factor corresponding to a saturation value; and
- adjusting said setting by [a] said correction factor to provide said initial setting.

2. (original) The method of claim 1 wherein said correction factor is  $10^{\Delta/20}$ , where  $\Delta$  is a predetermined offset.

3. (currently amended) A method for determining the setting of a gain control loop; the gain control loop being included in a receiver of a communication system which utilizes repeating frames, each frame having a plurality of timeslots; the method comprising:

- receiving a segment of data, the segment of data comprising a plurality of samples;

determining, from said plurality of samples, the number of said samples which exceed a first threshold;

setting the gain of the gain control loop for a particular timeslot based, at least in part, upon said number and

using said number to perform a comparison and generating a response in response to said comparison.

4. (original) The method of claim 3, wherein said segment of data includes a first portion whereby samples are examined and a second portion whereby samples are not examined.

5. (original) The method of claim 4 wherein said first portion is a sampling period and said second portion is a skip period.

6. (original) The method of claim 3, further comprising adjusting said gain by a power correction factor.

7. (original) The method of claim 6, wherein said power correction factor depends, at least in part, upon said number.

8. (original) The method of claim 7, further comprising a lookup table, which receives said number and outputs said power correction factor.

9. (original) The method of claim 3, further comprising comparing said number to a second threshold; whereby if said second threshold is exceeded, said segment of data is deleted.

10. (currently amended) An automatic gain control (AGC) circuit, comprising:

an AGC loop, ~~for receiving~~ configured to receive a segment of data comprising a plurality of samples;

the AGC loop ~~determining~~ configured to determine a gain setting and ~~outputting to output~~ said segment of data;

a saturation detection circuit, ~~responsive to said output from said AGC loop, for determining the~~ configured to determine a number of samples of said segment of data which exceed a first threshold in response to the output from the AGC loop; and

an erase circuit, ~~for comparing~~ configured to compare said number with a second threshold, ~~and determining to determine~~ if said number exceeds said second threshold; ~~whereby and to erase~~ said segment of data ~~is erased~~ when said second threshold is exceeded.

11. (currently amended) The AGC circuit of claim 10, wherein said saturation detection circuit further comprises a look-up table, ~~for receiving~~ configured to receive said number and ~~outputting to output~~ a corresponding power correction factor; and wherein said AGC loop ~~adjusts~~ is configured to adjust said gain setting responsive, at least in part, to said power correction factor.